

**Review Form 3**

Journal Name:	<a href="#">Journal of Experimental Agriculture International</a>
Manuscript Number:	Ms_JEAI_129471
Title of the Manuscript:	<b>Factors Influencing the Adoption of Climate Resilient Technologies in Semi-Arid Regions: Insights from NICRA in Samba District, Jammu and Kashmir</b>
Type of the Article	<b>Original Research Article</b>

**PART 1: Comments**

	<b>Reviewer's comment</b>	<b>Author's Feedback</b> <i>(Please correct the manuscript and highlight that part in the manuscript. It is mandatory that authors should write his/her feedback here)</i>
<b>Please write a few sentences regarding the importance of this manuscript for the scientific community. A minimum of 3-4 sentences may be required for this part.</b>	<p>Farmers of Jammu and Kashmir areas in Samba District, are exposed to several challenges associated with weather reliability, soil health, and natural resources, apart from a multitude of socio-economic challenges. The major of this research concerning agriculture is the changing climatic sensitivity of crops, due to which the adoption of climate-resilient crop technologies, as a response to climatic vulnerability in agricultural systems, is increasing. These technologies are a part of climate-smart agriculture. Thus, this paper examines the impact of NICRA interventions on crop yield and income of farmers in a vulnerable and semi-arid region of the Samba district of Jammu and Kashmir, which also includes the management of agriculture in a manner that increases productivity, adapts to climate change, and reduces greenhouse gas emissions.</p> <p>The present study deals with farmers' knowledge and adoption channels of climate-resilient agricultural technologies that were being tested in the Samba district of Jammu and Kashmir. Further, the study assessed the knowledge of technology and the adoption channels regarding higher yielding and climate-ready crops being tested by the researcher in Samba District, under the NICRA program. Furthermore, the objective of the study was to examine the adoption channels of the different agri-based climate-resilient technologies and to suggest measures for upscaling the technologies that suited them most.</p> <p>This study has significant implications for policymakers, extension agents, scientists, and NGOs in understanding farmers' knowledge and adoption channels and then devising policies and programs that could aid farmers' knowledge to adopt such technologies in the future. Further, the study captures growers' knowledge of agricultural technologies, particularly in crop yields and agricultural productivity, the technology and channel impacts on farmers' welfare, and the institutional settings that are factors contributing to the low adoption of certain characteristics of improved inputs. Finally, the study attempts to address the major issue of interest in the technology application literature: the relationships between technology characteristics, growers' features, and technology adoption.</p>	
<b>Is the title of the article suitable? (If not please suggest an alternative title)</b>	The title is suitable. However, I have recommended some amendments in terms of <i>typographical errors</i> . Also, there is a need to insert <i>the country of the area of a study</i> as indicated in the provided track changes and comments.	
<b>Is the abstract of the article comprehensive? Do you suggest the addition (or deletion) of some points in this section? Please write your suggestions here.</b>	There is a need for some insertions or deletions. The introduction section is good and shows the significance of the study. However, there are a few typographical, punctuation, and grammatical mistakes that need to be addressed as I have pinpointed them in the track changes sections. I have also noted that the country of the study area, analyzed summary of Numerical data, and suggestions for future scientific research sections are missing in the abstract. Therefore, these issues should also be addressed to make it more robust and informative.	
<b>Is the manuscript scientifically, correct? Please write here.</b>	In my opinion, I ascertain that this article is scientifically robust and technically sound. Very few similar studies have been conducted regarding the scope and rationale of this paper. Therefore, this study fills this research gap. This research demonstrates scientific correctness as it thoroughly discusses and ascertains that; farmers' experience has a significant influence on the adaptation of NICRA interventions. The study also sheds light on the positive relation with farm income due to the adaptation of NICRA interventions.	
<b>Are the references sufficient and recent? If you have suggestions for additional references, please mention them in the review form.</b>	The references are the most recent but a few are not the most recent and generally not sufficient. The cited and referenced materials are relevant to the present article with all citations in the reference list.	

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<p><b>Is the language/English quality of the article suitable for scholarly communications?</b></p>	<p>Please check a few <i>grammar and punctuation typo errors</i> in the article. Some of the <i>errors</i> are indicated in the track changes and comments. Please address them to improve the rigor of this article.</p>	
<p><b>Optional/General comments</b></p>	<p>The paper has a few typographical and grammatical mistakes. As indicated in the track changes, address the errors as indicated on the <i>manuscript's track changes</i> to improve the readability and clarity of the text.</p> <p>Overall, I believe the article is acceptable after addressing a few <i>suggested revisions</i>, particularly concerning addressing the specific corrections and comments raised in the <b>Track Changes Tool</b> and ensuring at a glance fast revision action.</p>	

**PART 2:**

	<p><b>Reviewer's comment</b></p>	<p><b>Author's comment</b> (if agreed with reviewer, correct the manuscript and highlight that part in the manuscript. It is mandatory that authors should write his/her feedback here)</p>
<p><b>Are there ethical issues in this manuscript?</b></p>	<p><i>(If yes, Kindly please write down the ethical issues here in details)</i></p>	

**Reviewer Details:**

<p>Name:</p>	<p><b>Fredrick Kayusi</b></p>
<p>Department, University &amp; Country</p>	<p><b>Maasai Mara University, Kenya</b></p>